

AMENDMENTS TO THE SPECIFICATION

At Paragraphs [11], [12], [14], [15], [21], [22], [32] AND [37]

Please amend paragraphs [11], [12], [14], [15], [21], [22], [32] AND [37] of the specification as follows:

[11] Certain embodiments of the invention may include a method and system for encoding and decoding of video and non-video information. The method for encoding and decoding video and non-video information may include creating a ~~second~~ first symbol from a ~~first~~ codeword. A TERC4 symbol, TMDS symbol and/or a guard band symbol may be generated from a portion or all of the ~~second~~ first symbol, and may be part of a transmitted signal. The ~~first~~ codeword may be directly encoded into a TMDS codeword. In another aspect of the invention, TMDS encoding of at least a portion of the ~~second~~ first symbol may generate a TERC4 symbol and/or a guard band symbol. The generated TERC4 symbol and the guard band symbol may be encoded so that they are combined within a single symbol for transmission.

[12] In another aspect of the invention, the ~~first~~ codeword may be generated from a portion or all of a ~~third~~ second symbol containing a TERC4 symbol and/or a guard band symbol. The generation of the codeword may occur when the ~~third~~ second symbol is received by a receiver or a receiver portion of a transceiver. TMDS decoding of at least a portion of the received signal may generate the ~~first~~ codeword. Similarly, TMDS decoding of a portion or all of the received signal, which may include the ~~third~~ second symbol, may generate the ~~second~~ first symbol. At least a portion of the ~~second~~ first symbol may be decoded or mapped to generate the ~~first~~ codeword. Notwithstanding, the ~~first~~ codeword may be a 4-bit

pre-TERC4 codeword, while the ~~second~~ first symbol may be an 8-bit pre-TMDS symbol.

[14] The invention may also provide a system for encoding and decoding video and non-video information. The system for encoding and decoding video and non-video information may include a first encoder adapted to encode a ~~first~~ codeword into a ~~second~~ first symbol. A second encoder may generate a TMDS symbol, TERC4 symbol and/or a guard band symbol from a portion or all of the ~~second~~ first symbol. The second encoder may be adapted to directly encode the ~~first~~ codeword into a TMDS symbol. The second encoder may encode at least a portion of the ~~second~~ first symbol to generate a TERC4 symbol and/or a guard band symbol. The second encoder may generate the TERC4 symbol and the guard band symbol so that they are combined within a single symbol for transmission. The first and second encoders may be part of the same transmitter.

[15] In another aspect of the invention, a receiver may be configured to generate the ~~first~~ codeword from a portion or all of a ~~third~~ second symbol containing a TERC4 symbol and/or a guard band symbol. The generation of the ~~first~~ codeword may occur when the ~~third~~ second symbol is received by a receiver or a receiver portion of a transceiver. A second decoder may be adapted to TMDS decode at least a portion of the received signal to generate the ~~first~~ codeword. Similarly, the first decoder may TMDS decode a portion or all of the received signal, which may include the ~~third~~ second symbol, in order to generate the ~~second~~ first symbol. The first decoder may be adapted to decode or map at least a portion of the ~~second~~ first symbol to generate the ~~first~~ codeword. Notwithstanding, the ~~first~~ codeword may be a 4-bit pre-TERC4 codeword, while the ~~second~~ first symbol may be an 8-bit pre-TMDS symbol.

[21] Aspects of the invention may include a method and system for encoding and decoding video and non-video information. In accordance with an embodiment of the invention, encoding and decoding video and non-video information may include creating a ~~second~~ first symbol from a ~~first~~ codeword. A TERC4 symbol, TMDS symbol and/or a guard band symbol may be generated from a portion or all of the ~~second~~ first symbol, and may be part of a transmitted signal. The ~~first~~ codeword may be directly encoded into a TMDS codeword without requiring additional processing. In another aspect of the invention, TMDS encoding a portion or all of the ~~second~~ first symbol may generate a TERC4 symbol and/or a guard band symbol. The generated TERC4 symbol and the guard band symbol may be encoded so that they are combined within a single symbol for transmission.

[22] In another aspect of the invention, the ~~first~~ codeword may be generated from a portion or all of a ~~third~~ second symbol containing a TERC4 symbol and/or a guard band symbol. The generation of the codeword may occur when the ~~third~~ second symbol is received by a receiver or a receiver portion of a transceiver. TMDS decoding of at least a portion of the received signal may generate the ~~first~~ codeword. Similarly, TMDS decoding of a portion or all of the received signal, which may include the ~~third~~ second symbol, may generate the ~~second~~ first symbol. At least a portion of the ~~second~~ first symbol may be decoded or mapped to generate the ~~first~~ codeword. Notwithstanding, the ~~first~~ codeword may be a 4-bit pre-TERC4 codeword, while the ~~second~~ first symbol may be an 8-bit pre-TMDS symbol.

[32] In accordance with another embodiment of the invention, the system for encoding and decoding video and non-video information as illustrated in FIG. 1,

may include a first encoder 104 adapted to encode or map a ~~first~~ codeword into a ~~second~~ first symbol. A second encoder block 108 may be adapted to generate a TERC4 symbol, TMDS symbol and/or a guard band symbol from a portion or all of the ~~second~~ first symbol, if the TERC4 symbol, the TMDS symbol and/or the guard band symbol is part of a transmitted signal. The second encoder block 104 may encode the TERC4 symbol and the guard band symbol so that they are part of a single symbol. The second encoder block 108 may also TMDS encode a portion or all of the ~~first~~ codeword to generate a TMDS symbol for the transmitted signal. MUX 106 may select whether TMDS encoder block 108 encodes the ~~first~~ code word or the ~~second~~ first symbol. The first encoder block 104 may also TMDS encode a portion or all of the ~~second~~ first symbol to generate a TERC4 and/or a guard band symbol.

[37] Decoder 204 may be adapted to decode a TERC4 symbol and/or a guard band symbol from a portion or all of a ~~third~~ second symbol received from the TMDS decoder block 208 of receiver 200. The TMDS decoder block 208 may be adapted to TMDS decode a portion or all of the received signal to generate a ~~first~~ codeword which may be directly transferred via DEMUX 206 to HDCP block 202 for processing. The decoder block 208 may also decode a portion or all of the received signal to generate a ~~second~~ first symbol that may be similar to the ~~second~~ first symbol generated by transmitter 100. Decoder block 204 may be configured to decode or map the ~~second~~ first symbol in order to generate a ~~first~~ codeword that may be similar to the ~~first~~ codeword generated by transmitter 100. The ~~first~~ codeword may be a 4-bit pre-TERC4 codeword, while the ~~second~~ first symbol may be an 8-bit pre-TMDS symbol.